

DEMENT'YEVA, G.I.

Inductive surface of crystals. Zap.Vses.min.obzr 92 no.4:420-433 '63.
(MIRA 17:2)

1. Leningradskiy gornyy institut, kafedra kristallografi.

DEMENT'YEVA G.V.

3(5)

PHASE I BOOK EXPLOITATION

SOV/2284

Moscow. Vsesoyuznyy nauchno-issledovatel'skiy geologo-rudovedchyy neftyanoy institut

Perspektivy nefte-gazosnostei i napravleniye geologorudovedchyykh rabot v severo-vostochnyykh rayonakh Uralo-Volzhskoy neftenosnoy oblasti. Vyyednaya sessiya uchenogo sovesha VNIIGI, Dekabr 1956 g., Kazan'. (Oil-and Gas-bearing Possibilities and the Direction of Geological Exploration in the Northwestern Regions of the Volga-Ural Petroiferous Region. Session of the Scientific Council of the All-Union Petroleum Scientific Research Institute for Geological Exploration held at Kazan; December 1956) / Nachb. 1,000 copies printed.

Additional Sponsoring Agency: USSR Ministerstvo geologii i obratnyy medr.

Ed.: A.I. Kleshchev, Candidate of Geological and Mineralogical Sciences; Executive Ed.: E.A. Yershov; Tech. Ed.: E.A. Mukhina.

PURPOSE: This book is intended for petroleum geologist.

COVERAGE: This collection of articles is the result of a field session held in Kazan' in December 1956 by the scientific council of the All-Union Petroleum Scientific Research Institute for Geological Exploration. The session was attended by members of the geological services of the various petroleum research and industrial institutions of Kazan', Mugul'ma, Ufa, Perm', Kuybyshev, etc. The collection discussed the prospects and possibilities of oil-bearing districts in the northern regions of the Volga-Ural oil-bearing province, its current problems in geological surveying and exploration, and plans for future drilling. All reports, presentations, replies to queries, the resolutions and recommendations made by the council, and the chairman's concluding remarks, are reproduced in the collection. The articles are accompanied by diagrams and tables. No references are given.

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Card 4/7

ABDULIN, F.S.; GONCHAROV, O.K.; MASLOV, I.I.; LEBEDEVA, M.N.; MAKAROVA,
L.I.; DEMENT'YEVA, G.V.

Drilling- in a clay gas-bearing bed using a saline drilling
fluid. Burenie no.6:18-20 '64. (MIRA 18:5)

1. Stavropol'skiy filial Groznenskogo neftyanogo nauchno-
issledovatel'skogo instituta i Moskovskiy ordena Trudovogo
Krasnogo Znameni institut neftekhimicheskoy i gazovoy
promyshlennosti im. akad. Gubkina.

SOV/9-59-7-6/15

3(5)

AUTHOR: Dement'yeva, G.V.

TITLE: On the Stratigraphic Subdivision of Maykop Deposits in Western
Kuban' Region

PERIODICAL: Geologiya nefti i gaza, 1959, Nr 7, pp 25 - 32 (USSR)

ABSTRACT: First stratigraphic systems of Maykop deposits were developed in the twenties and thirties by I.M. Gubkin, N.B. Vassoyevich, N.S. Shatskiy, V.V. Menner, and K.A. Prokopov. Subsequently, due to data submitted by N.N. Subbotina, S.T. Korotkov suggested the subdivision of the Maykop deposits into three sections, i.e. the Lower-Maykopskiy-Khadumskiy deposits, the Central-Maykopskiy and the Upper-Maykopskiy deposits. During the last ten years A.A. Gerke, A.K. Bogdanovich, B.P. Zhizhchenko and L.S. Ter-Grigor'yan presented additional data. In the article the author suggests the subdivision of the Maykop deposits on the basis of materials obtained by lithological and mineralogical studies of the core, by spore and pollen analyses carried out by Ye.D. Zaklinskaya and N.A. Gracheva and by analyses of microfauna performed by A.K. Bogdanovich. The data obtained proved that the system suggested by S.T. Korotkov could be applied to the Maykop deposits in Western Kuban' region. The author

Card 1/2

SOV/9-59-7-6/15

On the Stratigraphic Subdivision of Maykop Deposits in Western Kuban' Region

established stratigraphic subsections and specified their boundaries.
Paleontological, spore-pollen and mineralogical characteristics for
each subsection are given.

There are 2 sets of cross-sections and 8 Soviet references.

ASSOCIATION: VNIGNI

Card 2/2

FILIPPOVA, M.F.; CHERNYSHEVSKAYA, Z.A.; DEMENT'YEVA, G.V.

Stratigraphy and paleogeography of carbonate sediments in the
upper Devonian of the Tatar A.S.S.R. and adjacent areas. Trudy
VNIGNI no.13:72-86 '59. (MIRA 13:1)
(Tatar A.S.S.R.--Carbonates (Mineralogy))

KISTER. E.G.; ZLOTNIK, D.Ye.; MAKAROVA, L.I.; DEMENT'YEVA, G.V.; MARIAMPOL'SKIY, N.A.

Treating drilling fluids with chromates. Burenie no.4:14-17 '64.

(MIRA 18:5)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut burovoy tekhniki;
Stavropol'skiy filial Groznenskogo neftyanogo nauchno-issledovatel'skogo instituta i trest "Stavropol' neftegazrazvedka".

KHIZHENYAK, P.D., glavnyy red.; GLAZOV, G.A., zam.glavnogo red.; BLYUMBERG, V.A., red.; VASIL'KOV, B.A., red.; GHUSHKOV, A.T., red.; ZHOLOBOV, V.V., red.; KAMNEV, P.V., red.; KANTIYEV, N.M., red.; KISELEV, M.I., red.; KOSTYGOV, I.N., red.; MOISEYEV, A.A., red.; NOVIKOV, A.P., red.; SIMIN, S.A., red.; CHERNYSHEV, P.S., red.; SHAGURIN, K.A., red.; SHUB, I.Ye., red.; DEMENT'YEVA, I.K., red.; SEMENOVA, A.V., tekhn.red.

[Experience of mechanical engineers; technical information publication] Opyt mashinostroitelei; informatsionno-tekhnicheskii sbornik. Leningrad, Sovet nar.khoz.Leningr.ekon.administrativnogo raiona. Tsentr.biuro tekhn.informatsii, 1960. 88 p.

(MIRA 13:11)

(Mechanical engineering)

GORBACHEV, I.V., kand. tekhn. nauk, dotsent; DEMENT'YEVA, L.Ya., starshiy
prepodavatel'

Eutectoid interval of some engineering cast irons. Trudy DVPI.
56 no.1:107-110 '62.
(MIRA 17:6)

USSR/Forestry - Biology and Typology of the Forest.

K-2

Abs Jour : Ref Zhur - Biol., No 3, 1958, 10564

system is more compact. The ratio between the volumes of the leaves, the roots, and the branches hardly varies with growth. Maples reach a height of 30 meters and have diameters of up to 56 cm.

Card 3/3

DEMENT'YEVA, H.G.

Some biological characteristics of the Norway maple in different
habitats [with summary in French]. Biol. MOIP. Otd. biol. 63
no. 5:53-63 S-O '58 (MIRA 11:12)
(MAPLE)

ACCESSION NR: AR3010383

S/0081/63/006/015/0142/0143

SOURCE: RZh. Khimiya, Abs. 156201

AUTHOR: Dement'yeva, M. I.; Fedchenko, G. S.; Mal'tinskaya, S. Sh.

TITLE: Analysis of paraffinic, cycloparaffinic, and aromatic hydrocarbons k
C₆--C₈

CITED SOURCE: Sb. Metody* issled. produktov neftepererabotki i neftekhim. sinteza.
L., Gostoptekhizdat, 1962, 162-169

TOPIC TAGS: Parffin, hydrocarbon, cycloparaffin, aromatic hydrocarbon, gas
chromatography, liquid chromatography, chromatographic analysis

TRANSLATION: Techniques were developed for analyzing mixtures of paraffinic (PHC)
cycloparaffinic (CHC) and aromatic (AHC) C₅--C₈ by using gas-liquid chromato-
graphy, and the influence of the quantity of the stationary phase and length of
the column on the efficiency of the separation was investigated. The C₄--C₇ PHC
are analyzed chromatographically at 55° in a two-section column (200.0 + 400.0 x
0.4 cm) filled with triethylene glycol n-butyrate on diatomaceous brick (3:10
and 2:10, respectively). at a flow rate of the developer gas He or H₂ of 20 ml/min.
Card 1/2

ACCESSION NR: AR3010383

The mixture of PHC, CHC, C_6H_6 and $C_6H_5CH_3$ is analyzed at 65° , and the mixture of AHC at 115° in a column (480.0×0.4 cm) filled with the ester of pentaerythritol monochlorohydrin and valeric acid on brick (5:100), at a flow rate of the developer gas He or H_2 of 40 ml/min. The method is used for the analysis of industrial products of catalytic reforming, isomerization, demethylation, and extraction of AHC. The retention times of 21 hydrocarbons are given. B. Kolokolov

DATE ACQ: 23Sep63

SUB CODE: CH

ENCL: 00

Card 2/2

DEMENT'YEVA, M.I.; DOBYCHIN, D.P.; SHEFTER, V.Ye.

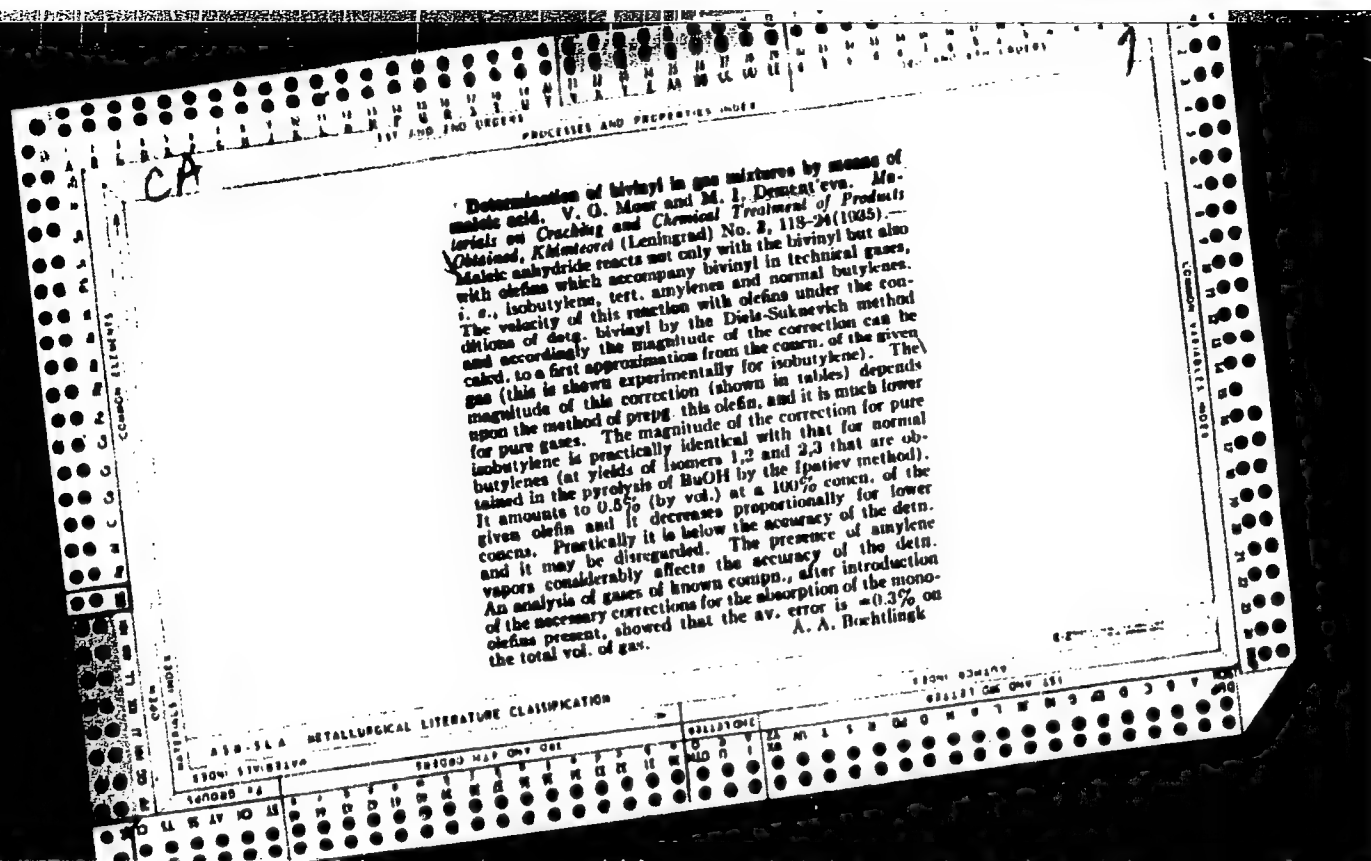
Use of coarsely porous glass in gas-liquid chromatography.
Zhur. fiz. khim. 36 no.1:228-229 Ja '62. (MIRA 16:8)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh
protseessov. (Chromatographic analysis) (Glass)

BURSIAN, N.R.; ~~DEMENT'YEVA~~, M.I.; SHMULYAKOVSKIY, Ya.E.

Some problems in the preparation of raw materials for the
isomerization process. Khim. i tekhn. topl. i masel 9 no.1:
7-12 Ja '64. (MIRA 17:3)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut nefte-
khimicheskikh protsessov.

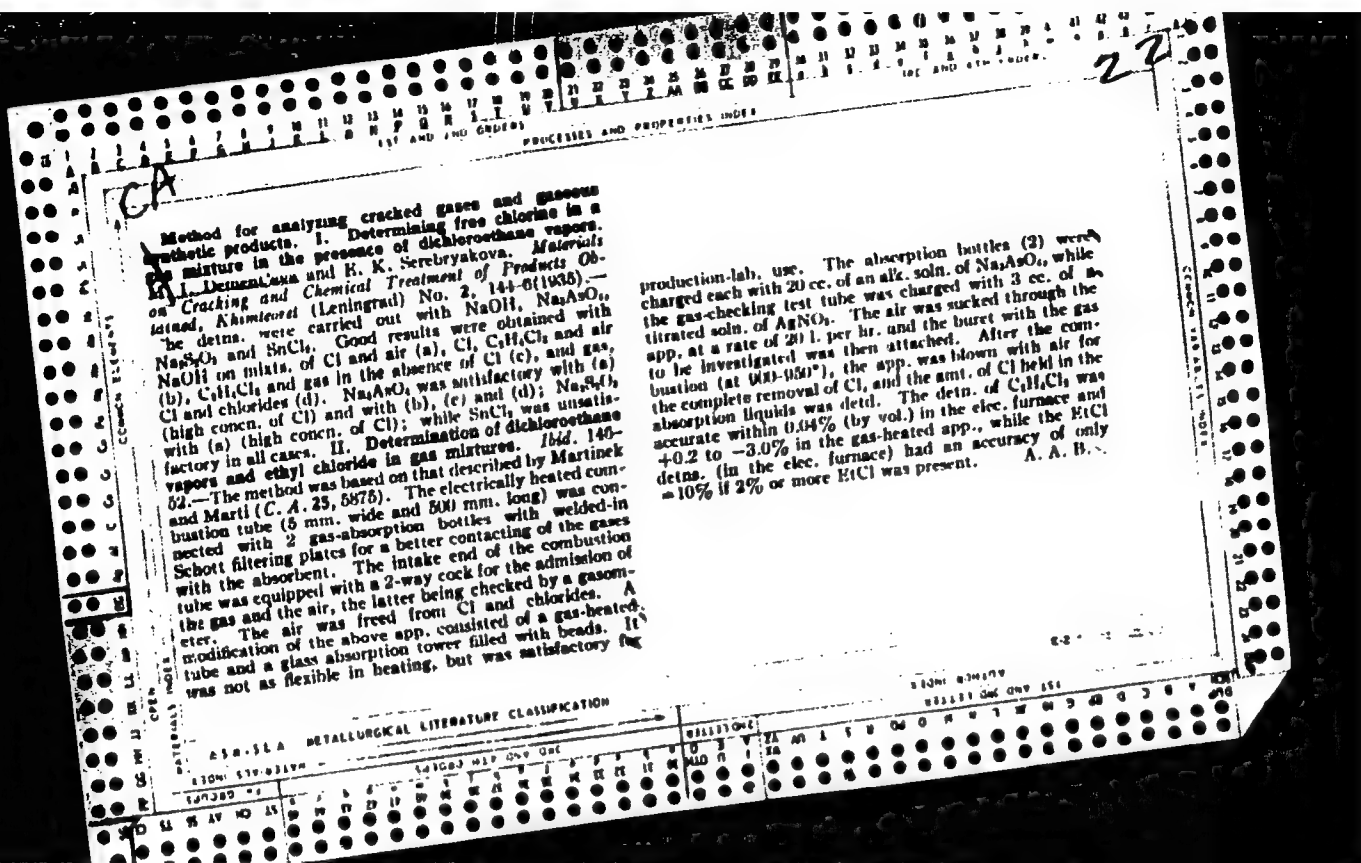


7

CA

1 The sulfuric acid method for analyzing technical un-
saturated gases. M. B. Markovich and M. I. Dement'-
eva. *Materials on Cracking and Chemical Treatment of*
Products Obtained, Khimvolvet (Leningrad) No. 8, 131-43
(1936).--A provisional standard method based on the
differences in the absorption of various unsat. hydrocar-
bons with H_2SO_4 of various concn. is described. Eighteen
references. A. A. Hixlingh

438.56.4 METALLURGICAL LITERATURE CLASSIFICATION



22

Extraction of divinyl from cracked gases. III. Ka.
 Extraction of divinyl from the butylene fraction with water.
 V. G. Moor, M. I. Dement'eva, and L. V. Shilyaeva.

Trans. Exptl. Research Lab. "Khempu," Materials on
 Cracking and Chem. Treatment of Cracking Products
 (U. S. S. R.) 3, 120-37 (1934); cf. C. A. 29, 1934;
 30, 2734. The extn. of divinyl from a butylene fraction
 of a cracked gas (C₄H₈ 10-15, iso-C₄H₈ 30-35, n-C₄H₈
 42-50, and C₃H₆ about 5%), from a mixt. of the above
 fraction with pure divinyl (15, 18, 32 and 54%), from a
 gas obtained in the plant "Lit. A," contg. 30% of divinyl,
 and from a divinyl concentrate obtained in a special
 plant, contg. 77% of C₄H₈ was carried out in a special
 app. (layout is given) at 15-21°. The gas contg. 15%
 of divinyl yielded a concentrate contg. 75% divinyl.
 An incomplete solution of the concentrate over 75 or a
 decrease below 8% caused a sharp increase of energy and
 required a larger app. The divinyl yield can be increased
 to 80% if the 15-18% butylene fraction is used. Re-
 peated extn. is much more advantageous than a single

extn. At least 3 extns. are needed for the prepn. of 75%
 divinyl concentrate. The process obeys the Henry law
 within practical limits; therefore from the soly. coeffs. of
 individual gases in the dissolved gas, their concn. can be
 calcd. with satisfactory accuracy. Experimental curves
 for a scheme and material balance of the extn. is suitable
 specified cases are given. Fractional aq. extn. and prob-
 for industrial purposes, requiring a simple app. and prob-
 ably will yield a divinyl concentrate at low cost. IV.
 Separation of divinyl from a butadiene fraction by means
 of organic solvent. V. G. Moor and M. I. Dement'eva.
 Ibid. 137-40. Divinyl was extd. from a gas contg.
 divinyl 20-23 and butylenes 72-75%, with kerosene in a
 special scrubber-type app. A concentrate contg. 72%
 divinyl was obtained after 6 consecutive extns. Tech-
 nological considerations showed that the use of kerosene
 as a selective solvent or other org. solvents is not adapted
 to industrial purposes. V. Separation of divinyl from
 the solutions. V. G. Moor and L. V. Shilyaeva. Ibid.
 140-7. A complete sepn. (94%) of divinyl from its aq. or
 20% chlorohydrin soln. can be effected by boiling the
 soln., but its sepn. from a phenolic soln. under the same
 conditions yields only about 81.3% of divinyl. Sepn.
 of divinyl from an aq. and phenolic soln. in toluene (0.01
 atm.) at 50° (at the end of the process yielded 97%
 divinyl, but its sepn. from the chlorohydrin soln. is less
 complete. The use of vacuum with atomization of the
 solvent allowed a 94% sepn. of divinyl at 0.01 atm.
 A. A. Podgorny

ASB-51A METALLURGICAL LITERATURE CLASSIFICATION

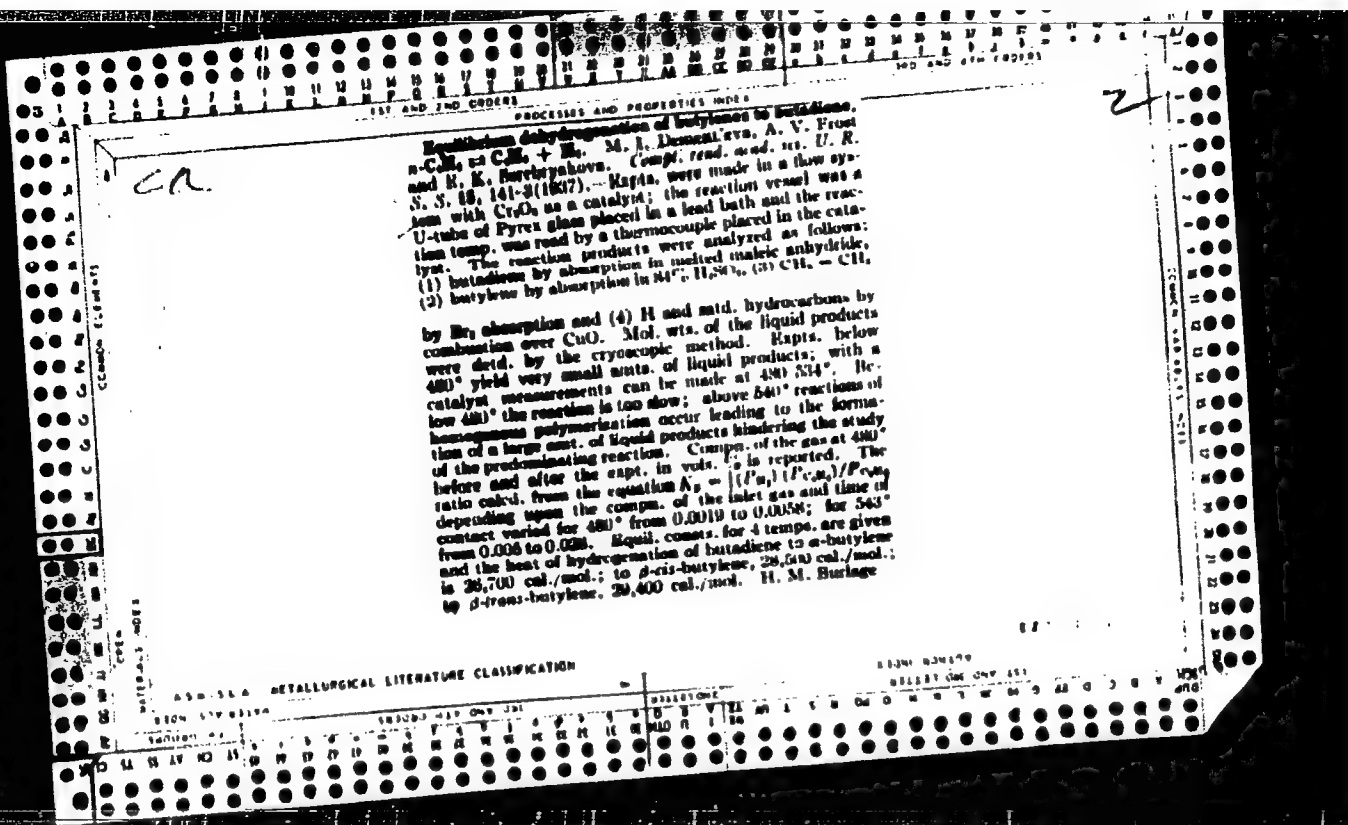
FROM SYNONYM 100000 HAV ONV 381

SYNONYM 100000 HAV ONV 381

Preparation of olefins from saturated hydrocarbon gases. I. Preparation of isobutylene by catalytic dehydrogenation of isobutane. M. I. Dement'eva, E. K. Serchayakova and A. V. Frost. *Khim. Tverdogo Topliva* 8, 331-7 (1937).—Isobutane, obtained in the cracking of kerosene with $AlCl_3$ and freed from S compds. and HCl , was dehydrogenated at 500–550° in the presence of the catalysts, prepared as follows: (A) 0.05 N $Cr(NO_3)_3$ was treated with NH_4OH , the ppt. $(Cr(OH)_3)$ formed was washed 10 times, dried at 100° for 2 hrs., then gradually heated to 250° and finally dried in a special app. (described) in a H_2 stream with a gradual increase of temp. to 500° until no more water vapor was evolved; (B) the same as (A) but dried in the air bath at 100° and then in a slow H_2 stream (0.3 l./hr.) as above; (C) Cr_2O_3 (104 g.) was dissolved in water (180 cc.), mixed, while cooling, with concd. H_2SO_4 (90 cc.), in 75 cc. of water. Then 30 cc. of $MeOH$ was added by drops and the resulting soln. was dil'd. with 600 cc. of water. Next day the soln. was treated with NH_4OH , the ppt. was washed with water until neutral, filtered and dried at 150°. The dry product was pressed, then broken up to 2–3 mesh, treated with super-heated steam for 3–4 hrs. at 480° and finally dried in a H_2 stream as above. The results of the expts. showed that the best catalyst was (C), although the yield of iso- C_4H_8 was lower than that obtained with the (A)

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catalyst, but the yield of the by products ($MeCH=CH_2$ and C_3H_6) was also lower. The dehydrogenation reaction of iso- C_4H_{10} in the presence of Cr_2O_3 catalyst was accompanied by the side reactions to a lesser extent than during the dehydrogenation by means of pyrolysis, yielding a greater amt. of iso- C_4H_8 . The sum of propylene and olefins having 4 C atoms was also somewhat higher with respect to decompn. iso- C_4H_{10} than that during pyrolysis at 650°. The Cr_2O_3 catalyst gradually lost its activity, thus, after 6 days of work, its activity was lowered to half of the initial value. Data are tabulated and plotted. II. Preparation of propylene and butylene by catalytic dehydrogenation of propane and butane. M. I.

Dement'eva, Ts. I. Klabina and E. K. Serchayakova. *Ibid.* 337–42.—The dehydrogenation of C_3H_8 and C_4H_{10} in the presence of the above catalysts ((C) is the best) is accompanied by the side reactions to a lesser extent than during pyrolysis and requires a lower temp. for the same results. Data are tabulated and plotted. Five references. III. Dependence of the composition of the decomposition products of the saturated hydrocarbons upon the conditions of the pyrolysis. A. V. Frost. *Ibid.* 343–7.—The method of calc. the compn. of products on the basis of the kinetics of the decompn. of individual hydrocarbon by assuming that the decompn. of individual hydrocarbon in their mixt. is independent, is given. Ten references. A. A. Podgorny



1ST AND 2ND COLUMNS		PROCESSES AND PROPERTIES INDEX		3RD AND 4TH COLUMNS	
21		<p>High-velocity oxidative gasification of gasoline. M. I. Dement'eva, M. A. Rivin, and V. M. Rudkovskii. <i>J. Applied Chem. (U.S.S.R.)</i> 19, 632-50 (1946) (in Russian). Gasoline "B-50," high in paraffins, 7% aromatic, substance caloric value 11,000 kcal./kg., was heated in a steel stances caloric value 11,000 kcal./kg., was heated in a steel reactor, 26 x 90 mm., 1100 mm. long, at 800-1000°, in the presence of air in the amt. α = fraction of the theoretical amt. (α = 1) necessary for combustion, from 0.03 to 0.15, under 1.2-1.4 atm., time τ the mixt. is in the reaction zone = 0.1 sec. or less. At 1000°, α 0.15, the temp. t distribution curve along the axis of the reactor shows an extension of the reaction zone between 20 and 74 cm. from the inlet, a max. (1075°) at about 30 cm. and a min. (1005°) at about 60 cm., followed by a second low max. (1014°) near 70 cm.; the ratio $\theta = t_{max}/t_{min}$, expressing the degree of non-isothermicity of the process, falls with α increasing from 0.03 to 0.15; for any given α, in terms of t, the ratio θ passes through a min. at about 900°, while $\Delta t = t_{max} - t_{min}$ has a max. at 900°; explanations are sought in terms of distribution and intensities of endothermal decompn. and exothermal oxidation. The fraction of O_2 reacted, forming CO_2, CO, and H_2O, remains fairly const. (85-90%) with τ varying from 0.02 to 0.10 sec. The degree of gasification g (% of initial gasoline</p>			
ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION		3RD AND 4TH COLUMNS		5TH AND 6TH COLUMNS	
1ST AND 2ND COLUMNS		3RD AND 4TH COLUMNS		5TH AND 6TH COLUMNS	

4050. REMOVAL OF MERCAPTANS WITH SLIGHTLY ALKALINE SOLUTIONS.
Obolentsev, R. D. and Demest'eva, M. I. (Compt. rend. acad. sci.
U.R.S.S., 1946, 21, 621-3; Chem. Abstr., 1947, 41, 1416).

Sulphurous compounds are removed from low-octane Baku 2 gasoline with 2% aqueous NaOH containing admixture of 3% wood tar just as effectively as with the American process with concentrated NaOH solution. The effect of various admixtures, MeOH 50, Na isobutyrate, ethylamine 1, furfural 1, propylene glycol 50, isovaleric acid 1, pronic acid 1, pyrogallol 0.3%, is given. Syran gasoline (b. 66.24°C) with wood-tar admixture treatment lost 34% of its total S. The remaining 0.006% consisted of 0.003 mercaptan, the rest H₂S and elementary S.

DEMENT'YEVA, M.I.

Dement'eva, M. I. Analiz uglevodorodnykh gazov (27)
(Analysis of Hydrocarbon Gases). Leningrad: Gosizdat
Nauki, 1966. 120 ill. 160 p. 160 p. 160 p. 160 p.

Handwritten signature

DEMENT'eva, M-I.

USSR

Determination of butenes by various methods. Determination of butenes by the sulfuric acid method. M. I. Dement'eva and E. V. Skrynnikova. *Trudy Vsesoyuzn. Nauch.-Issledovatel. Inst. Khim. Pererabotki Gazov (KHIM. GAZ)* 6, 244-57 (1961). —Of the different methods tested, absorption in 84% H_2SO_4 was found to be inaccurate because of the soln. of butenes in the polymers formed in H_2SO_4 , and can only be used when an error of 1% is permissible. The absorption in a H_2SO_4 soln. of $HgSO_4$ (Francis and Lukasiewicz, C.A. 40, 638) is universally applicable and is the only method known for the detn. of alkenes in the presence of butane. The absorption of butane in Br water is accurate within $\pm 0.2\%$ after the diln. of the sample with air. The Newton and Buckler method (C.A. 34, 4016) should be used to accurately det. isobutene in hydrocarbons, but is inapplicable to industrial gases containing pentenes. W. M. Sternberg.

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DEMENT'YEVA, M.I.

U.S.S.R. !

✓ Determination of isobutylene by the hydrochlorination method. M. I. Dement'eva, S. A. Khamova, and V. N. Prikh. *Trudy Vsesoyuz. Nauch.-Issledovatel. Inst. Khim. Pererabotki Gazov (KHIMGAZ)* 6, 257-61 (1951).—A minor modification of the McMillan method (C.A. 32, 2722) is recommended for mixts. contg. less than 50% butenes or butadiene. W. M. Sternberg

DEMENT'YEVA, M. I.

USSR.

Determination of acetylene in gas. S. Al Khlanova and
M. I. Dement'eva. *Trudy Vsesoyuz. Nauch.-Issledovatel.
Inst. Khim. Pererabotki Gazov (KHIMGAZ)* 6, 261-6
(1961).—Lebeau and Damien's method (C.A. 12, 1444)
is entirely applicable to the detn. of C_2H_2 in the presence of
alkenes. Soda-lime can be safely used for the absorption of
 CO_2 from gases high in C_2H_2 .
W. M. Sternberg

DEMENT'YEVA, M. I.

U S S R

/ Analysis of saturated hydrocarbons. M. I. Dement'eva and E. V. Skvortsova. *Trudy Vsesoyuz. Nauch. Issledov. Inst. Khim. Prirobnokh Gazov (KHIIMGAZ)* 5, 256-70 (1951).—In the analysis of natural gas, as improved at the KHIIMGAZ, the hydrocarbons are oxidized by CuO, the CO₂ is absorbed in NaOH, and the O from the CuO in the products is absorbed by Cu filings moistened with ammoniacal NH₄Cl, followed by 10% H₂SO₄ to absorb the NH₃ from the O absorbent. The amt. of O in the products depends on the quality of the CuO used, the length of operations, and the N proportion in the gas. The residual gas is N. The results are accurate with a high-hydrocarbon proportion in the gas, which makes its diln. unnecessary, as is particularly advantageous for the subsequent detn. of N. W. Al. Sternberg.

DEMENT'YEVA, M.I.

USSR

The determination of small quantities of oxygen in gas.
M. I. Dement'eva and R. V. Skvortsova. *Trudy Vsesoyuzn. Nauch.-Issledovatel. Inst. Khim. Pererabotki Gazov (Khimiya Gazov)* 6, 271-4 (1961).—Small amts. of O in a gas can be detd. by passing it over Cu filings moistened with ammoniacal NiCl_2 . An app. is described for the detn. of O in pyrogallol. W. M. Sternberg

DEMENT'YEVA, M.I.; CHEREPENNIKOV, A.A., redaktor; PERMINOV, S.V., vedushchiy
redaktor; SOKOLOVA, Ye.V., tekhnicheskii redaktor

[Analysis of hydrocarbon gases] Analiz uglevodorodnykh gazov. 2-e.
ispr. i dop. izd. Leningrad, Gos. nauchno-tekhn. izd-vo nef'tianoi i
gorno-toplivnoi lit-ry, 1953. 244 p. [Microfilm] (MLRA 7:10)
(Gases--Analysis)

VVEDENSKIY, A.A., otv.red.; MOLDAVSKIY, B.L., nauchnyy red.; BARKOVSKIY, I.V., vedushchiy red.; ALEKSEYEVA, K.A., red.; GADASKINA, N.D., red.; DEMENT'YEVA, M.I., red.; KAGANOVA, E.M., red.; KOBEL'EV, V.A., red.; LEVIN, S.Z., red.; POKORSKIY, V.N., red.; TEODOROVICH, V.P., red.; SEMULYAKOVSKIY, Ya.E., red.; GINNAD'YEVA, I.M., tekhn.red.

[Collection of reports of scientific research carried out between 1950 and 1957] Sbornik referatov nauchno-issledovatel'skikh rabot, vypolnennykh v 1950-1957 gg. Leningrad, Gos.nauchno-tekhn. izd-vo nef. i gorno-toplivnoi lit-ry, leningr.otd-nie, 1958. 158 p. (MIRA 12:9)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut po pererabotke nef. i polucheniya iskusstvennogo zhidkogo topliva.
(Petroleum research)

DEMENT'YANVA, Marianna Ivanovna; MOLDAVSKIY, B.L., nauchnyy red.;
BARKOVSKIY, I.V., vedushchiy red.; YASHCHURZHINSKAYA, A.B.,
tekhn.red.

[Analysis of hydrocarbon gases] Analiz uglevodorodnykh gazov.
Izd.3., ispr. i dop. Leningrad, Gos.nauchno-tekhn.izd-vo neft.
i gorno-toplivnoi lit-ry, Leningr.otd-nie, 1959. 375 p.
(MIRA 12:10)

(Hydrocarbons--Analysis) (Gases--Analysis)

FROST, Andrey Vladimirovich, prof. [deceased]. Prinsipialni uchastnye:
 BUSHMAKIN, I.N.; VVEDENSKIY, A.A.; GRYAZNOV, V.M.; DEMENT'YEVA,
 M.I.; DINTSES, A.I.; DOBROMRAVOV, R.K.; ZHARKOVA, V.R.; ZHERKO,
 A.V.; IPAT'YEV, V.N.; KVIATKOVSKIY, D.A.; KOROBOK, V.V.; MOOR,
 V.G.; NEMTSOV, M.S.; RAKOVSKIY, A.V.; REMIZ, Ye.K.; RUDKOVSKIY,
 D.M.; RYSAKOV, M.V.; SEREBRYAKOVA, Ye.K.; STEPUKHOVICH, A.D.;
 STRIGALEVA, N.V.; TATEVSKIY, V.M.; TILICHEV, M.D.; TRIFEL',
 A.G.; FROST, O.I.; SHILIYATEVA, L.V.; SHCHEKIN, V.V., DOLOPOPOLOV,
 M.M., sostavitel'; GERASIMOV, Ye.I., otv.red.; SMIRNOVA, I.V., red.;
 TOPCHYEVA, K.V.; YASTREBOV, V.V., red.; KONDRASHKOVA, S.P., red.
 izd-va; LAZAREVA, L.V., tekhn.red.

[Selected scientific works] Izbrannyye nauchnye trudy. Moskva,
 Izd-vo Mosk.univ., 1960. 512 p. (MIRA 13:5)

1. Chlen-korrespondent AN SSSR (for Gerasimov).
 (Chemistry, Physical and theoretical)

S/076/62/036/001/016/017
B119/B101

AUTHORS: Dement'yeva, M. I., Dobychin, D. P., and Shefter, V. Ye.

TITLE: Use of coarsely porous glass for gas-liquid chromatography

PERIODICAL: Zhurnal fizicheskoy khimii, v. 36, no. 1, 1962, 228 - 229

TEXT: The glass to be tested for its suitability as a carrier substance for gas-liquid chromatography was prepared as follows: sodium borosilicate glass of the type DB-1 (DV-1) was kept at 650°C for 24 hrs, and at 570°C for 72 hrs, crushed, and the grain fraction between 0.25 and 0.5 mm in diameter was first treated with 3 N HCl at 50 - 55°C for 24 hrs. After rinsing, further treatment was conducted with 0.5 N NaOH at 16°C for 12 hrs. The pores of the glass were 600 - 900 Å large, and the specific surface was 10 - 14 m²/g. The crushed glass, rinsed and dried at 120°C, was treated with triethyleneglycol-n-butyric acid ester dissolved in ethyl ether. Pentane-isopentane mixtures were separated chromatographically. Parallel experiments were conducted with kieselguhr, diatomite brick from the Inzenskiy zavod (Inza Plant), and with the US preparations Chromosorb and Sterhamol. The separation factor was 1.1 - 1.2 for all carrier

Card 1/2

Use of coarsely porous glass...

S/076/62/036/001/016/017
B119/B101

substances. In order to characterize the efficiency of the individual carriers, the degree of separation (= ratio of the distance between the peaks to the height of the lowest peak) had to be introduced as an auxiliary quantity. For coarsely porous glass it is 1.0, and for the remaining substances it is 0.1 - 0.7. Coarsely porous glass is therefore suitable for gas-liquid chromatography, owing to the uniformity of pores and to the absence of fine pores. There are 1 table and 2 Soviet references.

ASSOCIATION: Vsesoyuznyy nauchno-issledovatel'skiy institut nefte-khimicheskikh protsessov (All-Union Scientific Research Institute of Petrochemical Processes)

SUBMITTED: June 13, 1961

Card 2/2

ALEKSANDROV, Aleksandr Nakhimovich, red.; DEMENT'YEVA, Marianna Ivanovna;
SHMULYAKOVSKIY, Yakov Emmanuilovich; SEGAL', Z.G., ved. red.;
SAFRONOVA, I.M., tekhn.red.

[Methods for analyzing the products of petroleum refining and
petrochemical synthesis] Metody issledovaniia produktov neftepe-
reraботki i neftekhimicheskogo sinteza. Leningrad, Gostoptekh-
izdat, 1962. 231 p. (MIRA 16:1)
(Petroleum products) (Petroleum chemicals)

ALEKSANDROV, A.N.; DEMENT'YEVA, M.I.; FEDCHENKO, G.S.; SKOP. S.L.;
TYSOVSKIY, G.I.

Analyzing vinyltoluene by mass-spectrometry and gas-liquid
chromatography. Khim. i tekhn. topl. i masel 9 no.6:64-67
Je'64 (MIRA 17:7)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhi-
micheskikh protsessov.

DEMENT'YEVA, M.I.; PROKOPENKO, N.A.

Analysis of the products of synthesis of 3,3-di(chloromethyl)
oxacyclobutane by the method of gas-liquid chromatography. Zav.lab.
30 no.4:415-416 '64. (MIRA 17:4)

1. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh
protssessov.

L 47390-65 EWT(m)/EPF(s) Pr-4 RM

ACCESSION NR: AP5006824

S/0065/65/000/002/0052/0055

AUTHOR: Dement'yeva, H. I.; Naumova, T. I.; Yefimenkova, I. M.

TITLE: Determination of aromatic hydrocarbons by gas-liquid chromatography

SOURCE: Khimiya i tekhnologiya topliv i masel, no. 2, 1965, 52-55

TOPIC TAGS: aromatic hydrocarbon, chromatography, chromatographic analysis

ABSTRACT: The products of catalytic reforming, aromatization, and extraction which consist of paraffin, naphthene, and aromatic hydrocarbons (50-140°C) are normally analyzed through gas-liquid chromatography. However, the direct determination of aromatic hydrocarbons in the presence of hydrocarbons of other classes is difficult in that the time of their retention coincides with the time of retention of certain paraffin and naphthene hydrocarbons. In such cases it is necessary to separate the aromatic hydrocarbons on silica gel and then divide them using gas-liquid chromatography. The esters of glycol and succinic or adipic acids are very selective toward aromatic hydrocarbons. The experimental data which were obtained with respect to the coefficients of selectivity of esters indicate that their use as an

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L 47390-65

ACCESSION NR: AP5006824

immobile liquid phase would make it possible to determine aromatic hydrocarbons in some hydrocarbon products. The method provides satisfactory accuracy and good productivity. The maximum error is 0.7% abs. and the sensitivity is 0.05% abs. The quantitative composition of the products was based on the areas of the peaks from the chromatography without considering correction coefficients. It was not possible to use the correction coefficients since the composition of the paraffin-naphthene part was determined by totals. Orig. art. has: 3 figures, 4 tables.

ASSOCIATION: VNIIneftekhim

SUBMITTED: 00

ENCL: 00

SUB CODE: FT, OC

NO REF SOV: 000

OTHER: 000

bjo
Card 2/2

BALANDINA, V.A.; DEMENT'YEVA, M.I.; KLESHCHEVA, M.S.; TURKOVA, L.D.

Determination of the composition of crude vinyl acetate derived from
carbide acetylene. Plast.massy no.4:64-65 '63. (MIRA 16:4)
(Vinyl acetate) (Acetylene)

DEMENT'YEVA, M.L.

DEMENT'YEVA (Mme M. L.). О групповой устойчивости Прикозаницы к заболеваниям. [Concerning the group resistance of Gooseberry to diseases.]-- Докл. Акад. сельскохозяйств. Наук СССР. [Rep. Lenin Acad. agric. Sci. = Proc. Lenin Acad. agric. Sci.], 18, 6, pp. 32-34, 2 figs., 1953. [Received September, 1954.]

Investigations at the Moscow Timiryazev Agricultural Academy, U.S.S.R., indicate that the gooseberry varieties Michurinsky Chernyy Negus [Michurin Black Negus], Hanton, Karry, Pyatiletka [Five Year Plan], Muisovsky 17, and Muisoviky 37 are resistant to a group of the most harmful gooseberry diseases, namely, American mildew (*Sphaerotheca mors-uvae*) [E.A.M., 33, p. 163], grey mould (*Botrytis cinerea*), anthracnose (*Gloeosporium ribis*) [*Pseudopeziza ribis*], cluster cup rust (*Puccinia ribesii-caricis*) [*P. pringsheimiana*], and two non-infectious diseases (shoot wilt and leaf chlorosis).

Country : USSR 0
Category : Plant Diseases. Diseases of Cultivated Plants.
Abs Jour. : Ref. Zhur.-Biologiya No. 11, 1958. No.49279
Author : Dement'yeva, M.I.
Institute : Moscow Agricultural Academy im. K.A. Timiryazev
Title : Complex Immunity and Physiological-Biochemical
Characteristics of Gooseberry Varieties
Orig. Pub.: Dokl. Mosk. s.-kh. akad. im. K.A. Timiryazeva,
1957, vyp. 29, 142-146
Abstract : A regular relation has been determined between
biochemical and physiological characteristics of
gooseberry varieties and the degree of their
resistance to disease. Varieties resistant to
a disease complex are distinguished by lesser
activity of catalase and peroxidase, by a greater
organic acid content and smaller sugar and dry
matter contents, as well as by reduced transpira-
Card 1/2

~~DEMENT'YIVA~~. Mariya Ivanovna, kand. sel'skokhozyaystvennykh nauk; SAVZDARG,
V.E., red.; SOKOLOVA, N.N., tekhn. red.

[Powdery mildew of gooseberries] Muchnistaya rosa kryzhovnika.
Moskva, Gos. izd-vo sel'khoz. lit-ry, 1958. 43 p. (MIRA 11:9)
(Gooseberries--Diseases and pests)

DEMENT'YEVA, M.I.

COUNTRY : USSR 0
CATEGORY : Plant Diseases. Diseases of Cultivated Plants

ABS. JOUR. : RZhBiol., No. 21 1958, No. 96296

AUTHOR : Dement'yeva, M.I.

INST. : -

TITLE : Phyllosticta on the Gooseberry

ORIG. PUB. : Sad i Ogorod, 1958, No.1, 72

ABSTRACT : no abstract.

CARD: 1/1

14

DEMENT'YEVA, M.I., kand. sel'skokhozyaystvennykh nauk

Powdery mildew of gooseberries. Zashch. rast. ot vred. i bol.
3 no. 2:54-55 Mr-Ap '58. (MIRA 11:4)

1. Monkovskaya ordena Lenina sel'skokhozyaystvennaya akademiya
im. K.A. Timiryazeva.
(Gooseberries--Diseases and pests) (Mildew)

DEMENT'YEVA, M.I., kand.sel'skokhozyaystvennykh nauk.

Biochemical and physiological factors in the resistance of goose-
berries to mildew [with summary in English]. Izv. TSKhA no.5:149-160
'58. (MIRA 11:11)

(Gooseberries—Diseases and pests) (Mildew)

BELOV, A.N.; DEMENT'YEVA, M.I.; NEMTSOV, N.Yu.; KHAMOVA, S.A.

Automatic apparatus for adsorption analysis of hydro-
carbon gases, [Trudy] LO NTO Priborprom no.4:168-180
'59. (MIRA 13:2)

(Hydrocarbons--Analysis)

DEMENT'YEVA, M.I., dotsent

How to control rose rust. Zashch. rast. ot vred. i bol. 5
no.9:38-39 S '60. (MIRA 15:6)

1. Kafedra fitopatologii Moskovskoy ordena Lenina sel'skokhozyay-
stvennoy akademii im. Timiryazeva.

(Rusts (Fungi))
(Roses---Diseases and pests)

DEMENT'YEVA, Mariya Ivanovna, kand. sel'khoz. nauk; ROSSOSHANSKAYA,
V.A., red.; BALLOD, A.I., tekhn red.

[Diseases of fruit crops] Bolezni plodovykh kul'tur. Moskva,
Sel'khozizdat, 1962. 239 p. (MIRA 16:2)
(Fruit--Diseases and pests)

DEMENT'YANA, M.I.; NAUMOVA, T.I.; PROKOPIENKO, N.A.

Using chromatographic analysis in the process of obtaining isobutylene.
Neftekhimiya 2 no.6:892-896 N-D '62. (MIRA 17:10)

I. Vsesoyuznyy nauchno-issledovatel'skiy institut neftekhimicheskikh
professov.

BELYAYEVA, Valentina Aleksandrovna; DEMENT'YEVA, M.L., redaktor; MEDRISH,
D.M., tekhnicheskiiy redaktor

[Home use of corn in foreign countries] Pishchevoe ispol'sovanie
kukuruzy v zarubezhnykh stranakh. Moskva, Gos. izd-vo torgovoi
lit-ry, 1956. 103 p. (MLRA 9:9)
(Corn(Maise))

ZAKHAROV, V.I.; DEMENT'YEVA, M.L.; KAZENNOVA, A.R.; PARKHILOVSKIY, A.I.;
VAGANOVA, N.A., red.; BRODSKIY, M.P., tekhn. red.

[Public food service in the R.S.F.S.R.] Obshchestvennoe pitanie v
RSFSR. Moskva, Gos. izd-vo torg. lit-ry, 1961. 115 p.

(MIRA 14:11)

(Restaurants, lunchrooms, etc.)

DIMENT'YEVA, M.V.

Remission of acute leukosis in suppurations. Probl.gemat.i perel.
krovi 6 no.4:46-47 Ap '61. (MIRA 14:6)

Iz terapevticheskoy kliniki (zav. -- doktor med.nauk M.G. Malkina)
Moskovskogo oblastnogo nauchno-issledovatel'skogo klinicheskogo
instituta imeni M.F. Vladimirovskogo (dir. P.M. Leonenko).
(LEUKEMIA) (FURUNCLE)

DIEMEN'YEVA, N.F. (Moskva)

Factors promoting the genesis of schizophrenia in connection
with psychogenia. Trudy Gos. nauch.-issl. inst. psikh. 408
191-201 '63 (MIRA 17:27)

DEMENT'YEVA, N.F.

Clinical characteristics of schizophrenia originated in connection with psychogenia. Vop.klin., patog. i lech. shiz. no.1:41-43 '64.
(MIRA 18:5)

1. Otdel shizofrenii (zav. - prof. I.L.Rokhlin) Gosudarstvennogo nauchno-issledovatel'skogo instituta psikiatrii Ministerstva zdravookhraneniya RSFSR.

DEMENT'YEVA, N.F.

Changes in the emotionally-volitional sphere in schizophrenia patients with psychogenic recurrences of the disease, clinical pathopsychological study. Trudy Gos. nauch.-issl. inst. psikh. 43:129-138 '65. (MIRA 18:9)

1. Klinika shizofrenii (zav. - prof. I.I. Rukhlina) i laboratoriyu eksperimental'noy patopsikhologii (zaveduyushchaya - prof. B.V. Zeygarnik) Gosudarstvennogo nauchno-issledovatel'skogo instituta psikiatrii, Moskva.

D. 10.12.57
DANILINA, Z.A.; KURBATOVA, M.D.; DEMENT'YEVA, N.G.

Radiographic changes in the small intestine in Schonlein-Henoch disease. *Pediatrics* no.5:54-58 My. '57. (MIRA 10:10)

1. Iz detskoy kliniki I Moskovskogo ordena Lenina meditsinskogo instituta imeni I.M.Sechenova (dir. - deystvitel'nyy chlen AMN SSSR prof. Yu.F.Dombrovskaya)
(PURPURA (PATHOLOGY)) (INTESTINES--RADIOGRAPHY)

DEMENT'YEVA, N.G.

DILIGENSKAYA, L.A., kand.med.nauk, DEMENT'YEVA, N.G.

Diagnosis of nephrolithiasis in children [with summary in English]
Pediatrila 36 no:5:72-77 My'58 (MIRA 11:6)

1. Iz kliniki detskikh bolezney I Moskovskogo ordena Lenina
meditsinskogo instituta (dir. - deystvitel'nyy chlen AMN SSSR
prof. Yu.F. Domborvskaya).
(CALCULI, URINARY)
(CHILDREN--DISEASES)

SVETLOVA, A.K., kand.med.nauk; DEMENT'YEVA, N.G.

Segmental pneumonias in infants (clinical and roentgenological characteristics). *Pediatrics* no.9:3-10 '61. (MIRA 14:8)

1. Iz kafedry detskikh bolezney (zav. - deystvitel'nyy chlen
AMN SSSR prof. Yu.F. Dombrovskaya) I Moskovskogo ordena Lenina
meditsinskogo instituta imeni I.M. Sechenova.
(PNEUMONIA)

DEMENT'YEVA, N. I., Cand Med Sci -- (diss) "Condition of ^{the} Liver
~~in Lead Intoxication.~~ ^{Poisoning} Alma-Ata, 1957. 13 pp (Kazakh State
Medical Inst), 300 copies (KL, 47-57, 90)

58

DEMENT' YAKA. U.I.

Liver function in lead poisoning. Report No. 1. Zdrav. Kazakh.
17 no.1:23-27 '57. (MIRA 12:6)

1. Iz kafedry propedevtiki vnutrennikh bolezney (zav. - prof.
M.A.Brener) Kazakhskogo gosudarstvennogo meditsinskogo instituta
im. V.M.Molotova i Meditsinskogo ob'yedineniya No.2 g.Chikmenta
(glavnyy vrach - zasluzhennyy vrach KazSSR I.P.Basharat'yan).
(LIVER--DISEASES) (LEAD POISONING)

DEMENT'Yeva, N.I.

Treatment of toxic hepatitis caused by lead poisoning. Zdrav.
Kazakh. 17 no.8:25-27 '57. (MIRA 12:6)

1. Iz kafedry propedevticheskoy terapii Kazakhskogo gosudar-
stvennogo meditsinskogo instituta im. V.M.Molotova i vtorogo
medob"yedineniya g. Chimbenta.

(LEAD POISONING) (LIVER--DISEASES)

DEMENT'YEVA, H.M.

Diagnostic errors in cranial trauma. Trudy LSGMI 39:108-112
'58. (MIRA 12:8)

1. Kafedra sudebnoy meditsiny Leningradskogo sanitarno-gigiyeni-
cheskogo meditsinskogo instituta (zav.kafedroy - prof.A.V.Val'ter).
(CRANIUM, wds. & inj.
diag. errors (Rus))

DEMENT'YEVA, H.M.

Types of manifestations of coronary sclerosis in cases terminated by sudden death. Trudy ISOMI 40:177-187 '58. (MIRA 12:8)

1. Kafedra sudebnoy meditsiny Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof. A.V. Vel'ter).

(CORONARY DISEASES, manifest.

arteriosclerosis, sympt. in cases terminated by sudden death (Rus))

DEMENT' YEVA, N.M.

Sudden death in coronary sclerosis according to data of the Department of Forensic Medicine at the Leningrad Hygiene and Sanitation Medical Institute during the period 1944-1955.
Trudy LSGMI 40:188-199 '58. (MIRA 12:8)

1. Kafedra sudebnoy meditsiny Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav. kafedroy - prof.A.V.Val'ter).

(CORONARY DISEASES, statistics,
arteriosclerosis terminating in sudden death,
autopsy data (Rus))

DEMENT'YEVA, N.M.

Case of angina pectoris with a fatal outcome related to psychic trauma. Trudy LSOMI 40:324-326 '58. (MIRA 12:8)

1. Kafedra sudlebnoy meditsiny Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta (zav.kafedroy - prof.A.V.Val'ter).

(ANGINA PECTORIS case reports,
fatal outcome precipitated by emotional
shock (Rus))

(SHOCK,
emotional shock precipitating death in angina
pectoris (Rus))

DEMENT'YEVA, N.M.

Diagnosis of thrombosis of the coronary arteries in examination
of cadavers. Trudy LSGNI 48:239-253 '59. (MIRA 14:2)
(CORONARY HEART DISEASE)

DEMENT 'YEVA, N.M.

Cardiosclerosis in patients who die suddenly from arteriosclerosis
of the coronary arteries. Trudy LSGNI 48:296-314 '59.

(MIRA 14:2)

(CORONARY HEART DISEASE)

DEMENT'YEVA, N.M., kand.med.nauk (Leningrad)

Sudden death from atherosclerosis of the coronary arteries and
A.L. Miasnikov's classification of atherosclerosis. Klin.med.
38 no.9:137-139 S '60. (MIRA 13:11)

1. Iz kafedry sudelnoy meditsiny (sav. - prof. A.V. Val'ter)
Leningradskogo sanitarno-gigiyenicheskogo meditsinskogo instituta.
(CORONARY HEART DISEASE) (DEATH) (ARTERIOSCLEROSIS)

DEMENT'YEVA, N.M.

Methods for research on the heart and its arteries, Sud.-med.
ekspert. 4 no.4:15-22 O-N-D '61. (MIRA 14:12)

1. Kafedra sudebnoy meditsiny (zav. - prof. A.V.Val'ter) Leningrad-
skogo sanitarno-gigiyenicheskogo meditsinskogo instituta.
(CARDIOVASCULAR RESEARCH)

DONTSOVA, Z.S.; LEMENTIYEVA, N.V.

Studies on the effect of the cathode and anode polarization on the frog respiratory center depressed by the exclusion of afferent impulses. Biul. eksp. biol. i med. 59 no.2:15-19 F '65.

(MIRA 1:17)

1. Kafedra fiziologii cheloveka i zhivotnykh (zav. - prof. P.Ye. Motanyy) Dnepropetrovskogo gosudarstvennogo universiteta.

DEMENT'YEVA, Raisa

Renovation of a factory. Rabotnitsa 37 no.8:3 Ag '59.
(MIRA 13:1)

1.Sekretar' moskovskogo zavoda "Kauchuk".
(Moscow--Rubber industry)

MOSHKINA, M.K.; SAZHIN, V.S.; DEMENT'YEVA, S.D.

Interaction of kaolin with aluminate solutions. Ukr. khim. zhur.
31 no.8:851-856 '65. (MIRA 18:9)

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100																			
<p>DEMENT'YEVA S. P.</p> <p>CA</p>										<p>11H</p>									
<p>Acute water hemlock poisoning. M. M. Petrachkov and S. P. Dement'eva. <i>Farmakol. i Toksikol.</i> 7, No. 3, 57-61(1944).—The active principle of water hemlock (<i>Cicuta virosa</i>) is a spasmotic with high toxicity to the central nervous system and a pronounced pressor effect. It accelerates respiration, especially during paroxysms, but finally causes respiratory paralysis and death. It is a local stimulant to certain internal organs and tissues. The poison is stable at boiling temp. and durable in storage even if exposed to air.</p>										<p>Julian F. Smith</p>									
<p>ASB.SLA METALLURGICAL LITERATURE CLASSIFICATION</p>										<p>COMMON METALLS INDEX</p>									

DEMENT'YEVA, S. F.

Dement'yeva, S. F.

"Methods of Investigating Cuts in the Small Hollow Bones."
Khabarovsk State Medical Inst. Khabarovsk, 1955 (Dissertation for the degree of Candidate in Medical Science)

SO: Knizhnaya letopis' No. 27, 2 July 1955

DEMENT'YEVA, S.P.

Effect of barbital on the function of the central
nervous system and M. ... concentration in the
brain. Vest LGU 16 no.21:136-137 '61.

(MHA 14:11)

(ANOBARBITAL)
(BRAIN)

SHUMILO, R.P.; DEMENT'YEVA, S.P.

Dynamics of chicken infestation with helminths in central Moldavia.
Izv. AN Mold. SSR no.5:20-27 '63.

(MIRA 17:11)

ACCESSION NR: AT3013136

S/3018/63/000/000/0163/0173

AUTHOR: Sy*ti*nskiy, I. A.; Aveni*rova, Ye. L.; Dement'yeva, S. P.;
Ostretsova, I. B.; Priyatkina, T. N.

TITLE: Gamma aminobutyric acid in animal brains during radical
acceleration and narcotic sleep

SOURCE: Tret'ya Vsesoyuznaya konferentsiya po biokhimi* nervnoy
sistemy*. Sbornik dokladov. Yerevan, 1963, 163-173

TOPIC TAGS: gamma aminobutyric acid level, aminobutyric acid,
glutamic acid decarboxylase activity, radial acceleration, cortex
inhibition, amytal sodium, chromatography, electrophoresis,
electroencephalogram, central nervous system, beta oxidation

ABSTRACT: In the first of two series of experiments the level of
gamma aminobutyric acid and the activity of its enzyme, glutamic acid
decarboxylase, were determined in rats in relation to functional
activity of the central nervous system under conditions of strain.
In the second series they were determined in relation to the
functional state of the cortex inhibited by amytal sodium. For the
first series animals were subjected to radial acceleration of 23, 33,

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ACCESSION NR: AT3013136

and over 39 g on a centrifuge and then frozen in liquid oxygen. After the brains were removed, they were divided into large hemispheres and cerebellum for extract preparation by Robert's method. Amino acids were separated by chromatography and electrophoresis. Glutamic acid decarboxylase activity in the large hemispheres was measured by Barburg's manometric method. For the second series animals were injected subcutaneously with amytal sodium to induce narcotic sleep and then were frozen in liquid oxygen. Electroencephalograms were made before and after injections. Findings show that gamma aminobutyric acid and its enzyme take part in the resistance processes of the organism under heavy strain. Increase in gamma aminobutyric acid level with radial acceleration of 33 g appears to be a protective reaction which contributes to inhibition of the central nervous system. In animals with induced inhibition of the cerebral cortex, gamma aminobutyric acid level is reduced when brain biopotentials are sharply depressed. To compensate for this reduction, beta oxidation of the gamma aminobutyric acid takes place and beta-oxygamma-aminobutyric acid forms. This is reduced when the animal awakens. Orig. art. has: 3 figures, 3 tables.

Card 2/3

ACCESSION NR: AT3013136

ASSOCIATION: Laboratoriya khimii belka fiziologicheskogo
instituta Im. A. A. Ukhtomskogo Leningradskogo universiteta
(Protein Chemistry Laboratory of the Physiological Institute,
Leningrad University)

SUBMITTED: 00

DATE ACQ: 28Oct63

ENCL: 00

SUB CODE: AM

NO REF SOV: 012

OTHER: 029

Card 3/3

KHEFFERAN, Khman [Hefferan, Juan]; **BRAVO, Oktavio** [Bravo, Octavio];
BUKHANOS, Khman [Bujanos, Juan D.]; **OVCHINNIKOVA, M.A.**
[translator]; **LATYSHOVA, M.G.**, kand.geol.-mineral.nauk, dotsent,
red.; **AL'PIN, L.M.**, prof., red.; **DAKHNOV, V.N.**, prof., red.;
DEMENT'YEVA, T.A., vedushchiy red.; **GANINA, L.V.**, tekhn.red.

[Principles of geophysical well logging] Osnovy geofizicheskogo
issledovaniia skvashin. Moskva, Gos.nauchno-tekhn.izd-vo neft.
i gorno-toplivnoi lit-ry, 1960. 107 p. Translated from the Spanish.
(Oil well logging) (MIRA 13:7)

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geolog; POPOVA, L.V., geolog. CHEPIKOV, K.R., red.; DEMENT'YEVA,
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